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INSIDE THE DOME, by C. Dale Greffe

THE ILLINOIS ENGINEER, OCTOBER, 1956—VOLUME XXXII, NO. 10

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers

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ILLINOIS ENGINEER: P. E. ROBERTS, Editor; C. DALE GREFFE and W. J. ROBERTS, Associate Editors.

Of Interest to I. S. P. E.

Vox Secretarii

By P. E. ROBERTS, Executive Secretary

Membership

Membership increases in 1956 as compared with the same time in 1955 have been gratifying. In spite of the fact that the Illinois Society dropped 86 delinquents on July 1 after an eighteen-month lapse of dues payment, instead of December 31 as has been the custom in the past, the total number belonging to the Society on October 1 was only thirteen less than at the same date a year ago (1870 in 1956 and 1883 in 1955). With the impetus of a fall campaign, membership totals should continue to show substantial increases right up to the holidays.

Workshop Conference

A Workshop Conference was held at the University of Illinois Allerton Park on September 21 and 22. Since this was the first attempt at this kind of a meeting, no set program was followed on Friday except to assemble those committees in attendance in various places on the estate to discuss their mutual problems. The Chapter Activities Committee, the Legislative Committee, the Constitutional Amendments Committee, the Cooperation with Illinois Architects Committee and the Membership Committee all met and the consensus was that much more was accomplished in this kind of meeting than could have been done by correspondence or the ordinary type committee meeting.

Another advantage of this type of meeting is that committees can make their recommendations and discuss their problems directly with the Board of Direction.

Those attending the conference also had the opportunity to get acquainted with and hear Michael Blew, the new Field Representative for NSPE.

The Workshop Conference might be the forerunner of an annual affair.

72nd Annual Meeting

The Chicago Chapter is progressing with its plans as host to the Illinois Society at its 72nd Annual Meeting. Chapter President Graf is Chairman of the Planning Committee and William Jacobs is Chairman of the Convention. Other committee members are C. J. McLean, W. Wayne Wallace, and Linas H. Brown. Joseph Seliber is chairman of the Publicity and Public Relations Committee of the 72nd Annual Meeting.

Fees and Salaries Books

Two new booklets have been published by the Society and on October 8 a copy of the new recommended minimum fees schedule and a copy of the recommended sal-

(continued page 6)

OFFICIAL NOMINEES FOR 1957

The Society's Nominating Committee made up of the Past Presidents Committee, Dwain M. Wallace, Chairman; R. G. Brichler, and A. D. Spicer, has announced the official nominees for the year 1957:

President—Andrew W. Neureuther

Vice President—Frank W. Edwards

Secretary-Treasurer—A. Douglas Spicer

National Directors—Wayne W. Wallace

Dwain M. Wallace

The above is in accordance with the requirement of the constitution that the official nominees be announced in the October issue of the *Illinois Engineer*.

COVER PICTURE

The picture of the structure on the front cover is familiar to most Illinois citizens; however, very few have seen the structure from the angle which this picture was taken. It is looking up on the inside of the dome of the State Capitol Building at Springfield. This print has been entered in numerous International salons and it has received better than the average acceptance record.

The picture was made by Professor C. Dale Greffe, member of Champaign County Chapter, and it is a good testimonial to the fact that an engineer can be tops in his avocation as well as his vocation.

Central Illinois Chapter held an Annual Family Picnic in Spittler Woods pavilion in Decatur on August 16.

The Chapter resumed its fall activity with a stag at the Staley Clubhouse on September 27. The stag was attended by some 60 members and a good sprinkling of prospective guest members.

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READ THE ADVERTISEMENTS

SUBSCRIPTION RATES

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CERTIFICATE PRESENTATION DINNER

The Chicago Chapter of the Illinois Society held its second certificate presentation dinner at Western Society headquarters on September 13.



Director Binks

Chapter President Alois Graf opened the meeting and turned it over to Ellis Danner, President of the Illinois Engineering Council, who did a capable job as Master of Ceremonies.

Mr. Danner introduced the ones at the speakers' table, Royce Johnson, George Jackson, Andrew Neureuther, Ray Tilly, Dr. George Thodus, Miss Eiden, Dr. Edwin Whitehead, Director Vera Binks, Alois W. Graf, Miss Hyla Roof, Dean Owens, Mrs.

McDowell, Dean Trezise, John Duba, Linas Brown, P. E. Roberts, and Wayne W. Wallace.

Director Vera M. Binks gave a short talk on the value of engineering and the work of the Department of Registration and Education. As usual, her talk was long enough to cover all of the points she wished to make and short enough to hold the undivided interest of her audience. At the end of the talk Mr. Danner introduced the representatives from Illinois Society Chapters and the founder societies, who in turn first introduced those who received their certificates after passing the November 1955 examination and then those who were present who successfully passed the May 1956 examination. These men were handed their certificate by Miss Binks personally. Miss Hyla Roof, who is in charge of the professional engineers section of the Department of Registration and Education assisted Miss Binks.

Walter Hanson, Capital Chapter, ISPE; Tom Landes, Peoria Chapter, ISPE; C. J. McLean, President of the Illinois Section, ASCE; Ellis Danner, Central Illinois Section, ASCE; H. G. Buchanan, President Illinois Association of Engineers; and Evan E. Olmstead, past president of the Midwest Section of the Institute of Traffic Engineers composed the first group.

The mechanical engineers were represented by H. Pletta, Chairman Chicago Section, ASME; Richard Miller, Chairman Chicago Chapter of American Society of Tool Engineers; and James W. James, National President of the American Society of Heating and Air Conditioning Engineers. E. R. Whitehead, Chairman of Chicago Section, AIEE, who is also a member of the Examining Committee, and Dr. Rodolpho M. Soria, Chairman of the Chicago Section of the Institute of Radio Engineers represented electrical engineers.

The northern and western Chapters of ISPE were represented by Andrew W. Neureuther, Vice President of ISPE; Lloyd C. Gilbert, Joliet Chapter; William

Hooper, Jr., President of Lake County Chapter, and John K. Grubbs, President of the Rockford Chapter. Mr. E. W. Wolff, President of the Chicago Association of Consulting Engineers, introduced three new men for his group. Mr. George Jackson, President of Western Society of Engineers, who is also Chief Engineer of the Illinois Tollroad Commission, introduced the group from WSE. President Graf, Chicago Chapter, ISPE, had the pleasure of introducing fourteen who had received the certificate and six who were presented certificates at the meeting.

This is the second certificate presentation dinner and this year 250 members and guests sat down to dinner. This is a substantial increase over the number which attended last year. The dinner is an excellent demonstration of the fact that engineers not only think unity, but act in unison. Cooperative effort of this kind is doing much toward bringing engineers together on common ground.

The compliments of the Society to Chicago President Graf, Chicago Secretary Linas Brown, and Program Chairman Charles Shupe, for an excellent job of planning and execution.

NEWS FROM CHAPTERS

West Central Chapter held its September meeting on the 19th at Hotel Kewanee, Kewanee, Illinois. After the regular business meeting President Toepke introduced Chicago Chapter President Alois Graf, who spoke on the subject of "Behind the Scenes in Legislative, Professional, and Ethical Matters."

St. Clair Chapter held its 30th Annual Picnic together with the contractors and engineers in the East St. Louis area. Ticket distribution and reservations were in charge of Manuel Garcia for the St. Clair Chapter and L. D. Burger for the contractors. The picnic was held at the Arrow S. Club on Saturday afternoon, August 11. About 300 engineers enjoyed this annual outing.

Rock River Chapter held a dinner dance at Dixon Country Club on Friday, August 31. The program also included cards, community singing, and other entertainment. The newly registered engineers in the Rock River area were introduced at this meeting.

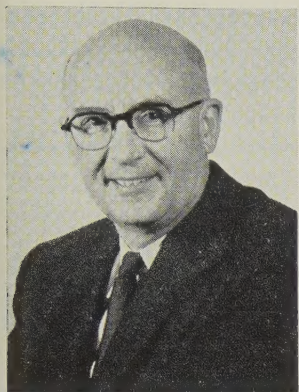
The Rockford-Rock River Annual Outing at Oregon was attended by over 250 members and guests, 200 of whom played golf.

Joliet Chapter, under the leadership of President Lloyd Gilbert, resumed its fall activity with a buffet supper and smoker in the Spanish room of the Elks Club in Joliet on September 18. A short business meeting was held, followed by a film entitled, "Broad Land, Narrow Water," and a speaker from the Joliet Association of Commerce who told those present about the Greater Joliet plan.

PROGRESS REPORT

By ROYCE JOHNSON, President

The Workshop Meeting of Committees and Board Members at Allerton Park September 21, the General Assembly of all present to hear Col. Michael Blew of



President Johnson

NSPE headquarters the next morning, and the subsequent Board of Direction meeting to hear committee reports, provided a pleasant, productive and inspiring weekend to mark the half-way point of our operational year.

Details will be available from your Chapter representative and committee members who were present. In particular however, the Membership, Constitutional

Amendments, Chapter Activities, and Legislative Committees worked long and diligently through Friday afternoon and evening. They were ably assisted by lone members of other committees and board members.

As a result of this and previous painstaking work by these committees and others which have not been idle, we can report substantial progress in several respects.

The result of the fine work of the Fees and Salaries Committee, which has been very active for well over a year, will probably reach you before this issue of the *Illinois Engineer*.

The Membership Committee has been diligent and is making progress. However, the cooperation of all members is indispensable if we are to top the 2,000 member mark.

A proposal by the Future Engineers of America Committee to organize FEA Chapters in high schools under ISPE Chapter sponsorship was carried a step further by Alois W. Graf, President of the Chicago Chapter. The Board accepted his offer to register the name "Future Engineers of America" as a trade mark and to incorporate a non-profit organization under that name. If unforeseen obstacles do not develop this new organization may well become of considerable sociological importance on a nation-wide basis.

The Legislative Committee recommendations cover the points assigned by the Board on April 14. Several additions were made by the Committee and a procedure planned to get legislative action. Effective action will require the cooperation of all chapters and many members. As soon as drafts of desired revisions in the laws are completed and acquiescence obtained from the Illinois Engineering Council, the Chapters will be given further details.

Reports by other committees indicate progress along other lines. Among these committees are those for Ethics and Practice, Vice-Presidents, Functional Sections,

and ISPE-IAHE Merger. Work by the latter committee, incidentally, has taken us to the stage of arranging a joint meeting of the governing boards to work out further details for merging.

A Chapter Committee which has done a tremendous service for our Society is the Recognition Dinner Committee of the Chicago Chapter. The Annual Meeting Committee in Chicago is well on its way also in rendering a significant service.

A review of the work and inspiring accomplishments of committees and their members makes your president feel very humble indeed. Forty-five men, 2.5 per cent of our membership, all concentrating on ISPE affairs were present at the Workshop. Of this number some 25 have each spent eight days this year at state level meetings. Add to this the effort devoted at other times by Chapter and State Committees and we have an impressive man-day total.

Committee efforts alone, no matter how strenuous, particularly in the important legislative area, will not be sufficient. We must constantly remember that adequate support at the local level for work and plans of the state committees is essential to the attainment of our objectives.

ANNOUNCEMENT OF ILLINOIS STRUCTURAL ENGINEERING CONFERENCE

The Civil Engineering Department of the University of Illinois, in cooperation with the Division of University Extension, announces the Fourth Illinois Structural Engineering Conference to be held December 3, 4, 5, 1956. Individual sessions will be devoted to a discussion of: Concrete Specifications, Steel Specifications, Foundations for Single Story Buildings, and High-Strength Structural Steel. Printed programs may be obtained (after November 1, 1956) from Mr. R. K. Newton, Supervisor of Engineering Extension, 116 Illini Hall, University of Illinois, Urbana, Illinois.

Capital Chapter held its Hillsboro outing and golf day on Tuesday, August 28. The Chapter reports that another member of the Sanitary Engineering Department of Health, J. D. "Jim" Williams, has taken a leave of absence to act as consultant for health and sanitation for the International Cooperation Administration in Mexico City.

Research is exemplified in the problem-solving mind, as contrasted with the let-well-enough-alone mind. It is the composer mind, instead of the fiddler mind. It is the "tomorrow" mind, instead of the "yesterday" mind.—CHARLES F. KETTERING

PRESTRESSED SLAB COVERING FOR AIRPORT RUNWAYS

Results of a two-year research study by Southwest Research Institute at San Antonio's International Airport may give an economical answer to repair of warping and cracking runways which were not built to withstand today's heavy aircraft loadings.

Studies by the independent nonprofit San Antonio research center for the city show that an experimental "prestressed" slab covering, developed at Southwest Research Institute, which can be laid over existing runways appears to be a sound way of strengthening the pavement and will also cut maintenance costs.

San Antonio Airport taxiways and runways are breaking up and conventional runways strong enough to withstand the load would require concrete twice as thick as the present ones.

Airport officials had two courses of action. One was to remove the old pavement and pour new concrete of increased strength to replace it. The other was to place overlays onto existing pavement to increase the load capacity to the required amount.

Southwest Research Institute scientists tested out both the conventional thick concrete overlays and a thin (four inch) prestressed concrete slab overlayed on existing pavements. The tests were made on Taxiway No. 1, which gets the hardest wear at the airport.

The San Antonio City Council appropriated \$3,725 for engineering research at the airport. Steel companies

donated prestressed wire. Texas Stress Concrete Corp. provided services without profit, as did Prestressing, Inc. Technical research was directed by M. M. Lemcoe, manager of structural research and development at Southwest Research Institute. Frank T. Drought, consulting engineer, represented the city in handling engineering contracts. Construction was by H. B. Zachry Co.

To avoid the expense of digging up the present runways and pouring new thick ones, Southwest Research engineers developed a thin prestressed slab which can be poured over the old runways to repair them.

"Although the prestressed overlays cost somewhat more at first," Lemcoe said, "we believe that the greatly increased service life of the pavement and the lowered maintenance cost will more than offset the higher installation expense."

Word from Stanley Engineering Company brings the information that Frank W. Edwards has been advanced to the position of Associate in the firm. The Society's congratulations to Mr. Edwards in his new responsibilities.

Little Susan's mother had caught cold and resorted to that old-fashioned remedy, whiskey and hot water. When Susan was going to bed her mother came to kiss her goodnight, and the child looked at her strangely. "You've been using daddy's perfume," she said solemnly.

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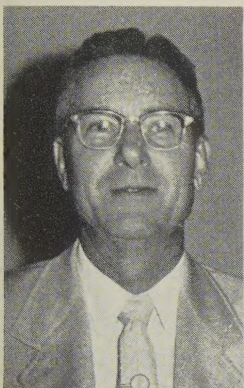
Know the Members of Your Board of Direction

The governing body of the Illinois Society is the Board of Direction. The Illinois Society Constitution gives them their power; it reads, Article VII, Section 2, "The management of the Society shall be vested in a Board of Direction . . ." Article IX, Section 5, reads, "The Board of Direction shall be vested with the general conduct of the affairs of the Society and between Annual Meetings shall act on all matters concerning the Society. It shall approve the execution of all contracts and the expenditures of moneys except as provided in Article X. It shall have the sole power to grant and revoke charters of Chapters."

From the above you see that the Board of Direction of the Illinois Society is the group of men who make the decisions of policy and who say "yes" and "no" to any matter of Society business.

To help you know the members of the Board, pictures of the members and thumbnail sketches will be run in this column, spaces permitting. There is no order or reason for the way the individuals are presented.

(Photos by C. Dale Greffe furnished at no cost to the Society)



John Henline (N '48) is a civil engineer with the Pure Transportation Company in Olney. He was born in Ft. Wayne, Indiana, in 1904. He received a B.S. in Civil Engineering from Valparaiso University in 1931. He has a wife and one daughter, age 14. His hobbies are badminton and swimming, and he interests himself in his basement workshop when outside activity is restricted. He is active in church

work and has been active in the welfare of Ambraw Chapter for many years. He was Chapter Representative 1950 through 1953. He was Chapter President in 1955, and returned to the Board this year.



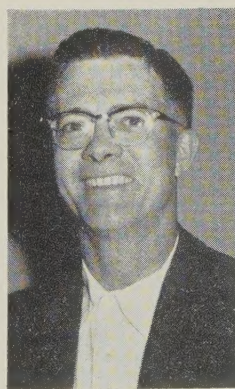
Frank W. Edwards (N '49) was born August 10, 1905, in Williamsburg, Iowa. He received his B.S. in General Engineering in 1928, his Masters' in Hydraulics in 1930 and the professional degree of Civil Engineer in 1944 at the University of Iowa. After leaving college he worked on various projects, joining the Illinois Institute of Technology as head of the Department of Civil Engineering in 1948. In 1952 he

became manager of the Centennial of Engineering celebration in Chicago and upon completing his duties, joined Stanley Engineering as manager of its Chicago office. He was Chairman of IEC Representatives 1951 and 1952. He was a member of various state committees, Vice President of the Chicago Chapter in 1951 and President in 1952. He has served on the NSPE Young Engineers Committee and also the Education Committee. He is one of the three Chapter Representatives now serving from the Chicago Chapter.



Dr. Herman W. Dorn (N '48) heads his own firm in Decatur, which specializes in research and development programs and production management. Dr. Dorn earned his A.B. in Chemistry in 1935, his M.A. in Biochemistry in 1936, and his Ph.D. in Organic Synthesis in 1938, all at Clark University. He worked for various companies before joining Irwin, Neisler & Co., pharmaceutical manufacturers, in 1947. He

was born on September 14, 1911, in Manhattan, New York. He and Mrs. Dorn have four children, the oldest being 18 and the youngest 5. His extracurricular activities include interest in the Shrine, American Legion, Elks, and Boy Scout Council. He is a Lt. Col. in the Army Reserves and deputy director of Macon County Civil Defense Corps. Dr. Dorn has been active in Central Illinois Chapter affairs and was elected Vice President in 1950 and President in 1951. He has served on various state committees, however, this is his first year of service on the Board of Direction.



Francis S. Weir (N '47) is a sanitary engineer with the Walker Process Equipment Company in Aurora. He received a B.S. in Civil Engineering in June, 1942, and began his career with the U. S. Public Health Service. He served as a Lieutenant in the U. S. Army, Sanitary Corps Service, from May 1943 to June 1946. He returned to service with the U. S. Public Health Service and joined Walker Proc-

ess in 1953. He is the only bachelor on the Board and is serving his first term as DuKane Chapter Representative.

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(Vox Secretarii Continued)

ary schedule was sent to each person belonging to the Illinois Society.

This is the culmination of many meetings and much hard work by the Fees and Salaries Committee. The next job that they have assigned for themselves is a series of contract forms between architect and engineer on both fixed fee and a percentage basis.

Extra copies of the fee schedule are available for \$1.00 each and extra copies of the salary schedule are available at 50c each. Your request for extra copies should be directed to the Executive Secretary's office.

Items of Personal Interest

Philip Bauer, member of St. Clair Chapter, and his wife were on the last eastbound trip of the Andrea Doria. The ship, as you will remember, sank on her return trip to the United States. The Bauers were detained in Europe longer than they had intended for the reason that they had booked return passage on the ship and the booking had to be taken care of on another ship.

The registrations at the University of Illinois this fall have again broken all records. 19,231 are registered as full-time students on the Urbana campus. These figures do not include the 4,178 undergraduates at Navy Pier or the 998 attending the professional colleges in Chicago. As was predicted, the registration in engineering has advanced more rapidly than the other colleges on the campus.

On October first, W. J. Nuebling, S'29, N'48, retired as chief engineer of the Alton and Southern Railroad. Raymond G. Brichler, S'43, N'47, was promoted to chief and Manuel Garcia, S'46, N'48, became assistant chief. This is a double "family affair" since all three are long-time members of both the Society and the Railroad.

N.S.P.E. ASKS RULING

The National Society of Professional Engineers has asked the United States District Court for the District of Columbia to rule that the Taft-Hartley Act gives professional employees the right to a separate vote to determine whether or not they want to continue representation for collective bargaining by a trade union.

The Society filed its views in a "friend of the court" brief in support of a group of engineers at the Jersey City, N. J., Westinghouse Company. The engineers have filed suit against the National Labor Relations Board following an NLRB decision denying them a separate vote to determine their desires for future representation. They are now represented for collective bargaining by the International Union of Electrical Radio and Machine Workers, AFL-CIO.

In its brief to the court, the Society points out that this case is the first test of the interpretation of the labor law on the point involved and that the decision will affect the entire engineering profession.

In its brief, NSPE stated that the legislative history of the Taft-Hartley Act proves that Congress intended that professional employees were intended to have the right of a separate vote in all forms of representation proceedings. The brief notes that the original testimony before Congressional committees by the engineering societies in 1947 was directed at the evil of a forced mixture of professional employees with nonprofessional employees. The brief also argues that Congressional proceedings subsequent to the enactment of the Taft-Hartley law proves Congressional recognition and acceptance of the doctrine followed for eight years by the NLRB—that professional employees should have a separate vote in decertification questions.

The Westinghouse engineers are represented in the court case by Thomas L. Morrissey of Carpenter, Bennett, Beggans & Morrissey, Jersey City, N. J. The NSPE brief was filed by Milton F. Lunch, Washington, D. C.

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Chief Consult. Ind. Engr. Mach. products and electronics. 53. Fully exp. all shop and admin. controls, analyses and cost reduct. methods. 20 yrs. prof. field consult. and 14 yrs. accounting and cost engrg. Exp. in varied lines. \$12,000. Midwest. 612-IE

Project Engr., mfg. B.S., M.E., 35. 12 yrs. exp. interpreting product des. and assoc. sales estimates into requisitions for plant, tooling and materials for min. costs. Survey exp. in tool des. labor grading, cost analysis, des. standardization. \$9,000. Midwest-West. 613-IE

Ind. Mgmt. Engr. B.S., M.E., 40. 17 yrs. varied phases of engrg. incl. ind. des. admin. construct. Add'l education in law, accounting operations res. Rec. navy res. commander. \$10,000. Chgo. area. 614-IE

Production Engr., aircraft. 34. 7½ yrs. airplane co. as tool and prod. planning engr. \$5,600. Ill. 615-IE

Factory Mgr. 45. Interested in operating a plant. All phases of mgmt.; particularly good in organization and handling of supvs. \$25,000. Chgo. area. 616-IE

Chief Arch., Mfg. 44. Licensed arch. planning, estimating, working, drawings and specs, contracting and supv. constr. \$12,000. Chgo.-Seattle. 617-IE

Sales Engr., constr. (bldg.). B.S., C.E., 24. 1½ yrs. of des. drawing and surveying exp., mostly in constr. Work very well with people, energetic and adaptable, vet. \$5,400. Midwest. 619-IE

Chief Engr., paper, food, chem. B.S., M.E., 31. 2 yrs. mech. des. and dev. and 2 yrs. ind. type pneumatic controls. \$8,500. Midwest. 621-IE

Asst. Stationary Engr., apt. or office bldg. 64. Over 40 yrs. exp. in all phases of mech. oper. and maint. \$5,000. Chgo. 624-IE

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Sales Engr., mach. B.S., M.E., 34. 4 yrs. rotating mach. sales. 2 yrs. I.C. eng. application engr. 3 yrs. gears and transmission indl. application and sales engr. \$8,000. Midwest. 626-IE

Buyer, Mfg. plant. 44. 18 yrs. exp. in large mfg. concern buying of elect. prods. and devices. \$7,500. Midwest. 628-IE

Mech. Engr., Metal working. B.S., M.E., 37. Worked in plant engr. depts. for 5 yrs. des. for 6 yrs. Have both piping and mach. des. exp. Have steam plant des. exp. \$6,000. Western Chgo. suburbs. 632-IE

Chem. or Corrosion Engr., Metals, process. B.S., Ch.E., 43. Supv. dev. or prod. 11 yrs. in corrosion spec. and met. in stainless steel, alum., etc. \$10,000. Midwest. 634-IE

POSITIONS AVAILABLE

Chief Engr., M.E., age 40-46. 5+ yrs. in top flight engr. admin. in internal combustion engines, know eng. dev. Duties: Heading entire engrg. activities incl. dev. des., testing and prod. of 2 cycle eng. for a mfr. of eng. Sal. \$25-30,000+. Loc.: Calif. Empl. will pay fee. C-5556

Sr. Electronics Dev., age 25-45. 3+ yrs. in transistor circuitry des. or dev. Know servo amplifiers and servo mechs. Duties: Dir. dev. program for transistor circuitries for computers for a mfr. of electronics. Sal. \$10-\$14,000. Loc.: Wis. Empl. will pay the fee. C-5564

Computer Dev. Engr., age 25-45. 3+ yrs. in aero-dynamics for jet aircraft. Know synchros, servos, kick-off and ray generators. Duties: Dev. air-borne analog computers for a mfr. of electronics. Sal.: \$10-12,000. Loc. Wis. Empl. will pay the fee. C-5565

Des.-Injection Molds. 5+ yrs. des. inject. plastic molds. Duties: Des. molds for plastic inject. machines, some trouble shooting on old molds and some supv. of other designers for a mfr. of plastics. Sal. up to \$12,000. Loc. Chgo. Empl. will pay the fee. C-5576

Assoc. Staff Engr. M.E. or Chem.E., age 25-40. 3+ yrs. in insp. of flammable gas properties or safety work. Know production and distrib. of L.P. Gas. Duties: Assigned as sec. to tech. committees; gen. correspondence on tech. problems, conducting training schools; some speak. engage. and some editorial work. 30% trav.; no long trips. For

a trade assoc. of pet. Sal. \$9-10,000. Loc. Chgo. Empl. will pay the fee. C-5605

Application Engr., M.E. 5+ yrs. in des. of air cond. and refrig. systems. Know high pressure air cond. Duties: Consulting with engr. and accts., setting up specs. for air cond. systems; assist sales dept. on tech problems; and application work in gen. Some trav. For a mfr. of air cond. Sal.: \$72-9600. Loc. Wis. Empl. will pay the fee. C-5598

Asst. Engr. B.S., C.E., or M.E., age 25-44. 5 yrs. with interest in office position, des. neatness, etc. Knowl. of concrete helpful. Duties: Asst. with analysis and des. of various types of concrete pipes and specs. prep. of standards, eqpt. des. estimating, prod. planning, engrg. aid to distr. on des. sales, prod. and drftg. Specialized training will be given. 5% trav. for a mfr. of concrete. Sal. \$9,000 dep. on exp. Loc. Chgo. Empl. will pay the fee. C-5623

Mech. Engr. B.S., M.E. Age 30-50; 5 yrs. in chem. processes. Knowl. of piping & vent helpful. Duties: Will work as a project engr. handling all phases of mech. work for new plants & the expansion of present plant fac. for a mfr. of paint. Sal. \$8500. Loc. Chicago. Empl. will pay the fee. C-5624

Distr. Mgr. College engrg. Age 30-50; 5 yrs. exp. mech. contracting—air cond., hgtg., plbg. Duties: Estimate, negotiate, buy, supt. & completely handle lge. mech. contracts in Fla. Some travel. Sal. \$7-9,000 plus profit sharing. Loc. Fla. Empl. will pay the fee. C-5627

Staff Ind. Engr. Age up to 45; 5 plus yrs. in plant organization, salary admin. or job eval. Duties: Gen. staff consulting work in above named phases of indust. or mgmt. engrg. Considerable trav. No car req'd. For an indust. consult. Sal. \$84-9600. Loc. hdq. Chicago. Empl. will pay the fee. C-5632

Patent Atty. Eng. & Law deg. Age 25-35; 3 plus yrs. in patent work. Duties: Patent work for a pet. refiner. Sal. up to \$10,000. Loc. Chicago. Empl. will pay the fee. C-5635

Res. Geologist or Geophysicist. B.S. or better geol. or geophysics. 4 plus yrs. in exploration or res. of petroleum rock formations. Duties: Res. in fundamental properties of carbonate rocks that serve as petrol. reservoirs for a pet. refiner. Sal. up to \$12,000. Loc. N. W. Chicago suburb. Empl. will pay the fee. C-5637